The enclosed information should allow you to make "J" antennas for any band. I have made several of each configuration with 100% results.

First determine the installation requirments, e.g. if it is to be a base station antenna, you might consider making the elements out of 1/2" copper pipe, soldered together (see Figure 1). If copper pipe is used, no spacer is required because of the rigidity of the elements. I have one of these up right now and it works super.

If for mobile application, consider the 1/8" or 1/4" wire spaced with a piece of drilled PVC. These work excellent also. Dimensions are included in Figure 2.



What ever the materials, following formula should be used to calculate the distance between elements (see Figure 2):

A (feet) = .24 wavelength B (feet) = .71 wavelength

To determine wavelength in feet: divide by the frequency in MHz by 984.

EXAMPLE: 984/146MHz = 6.74 feet x 12 inches = 80.88 x .24 = 19.4" for A

 $C = (16 \times D)$  divided by 2, where D = diameter of element



Antenna is fed with a 4:1 balun: see details on back >>>>>

J AWTENNZ 2 meters 145-147 Mhz Devoloped by WAINAP/6 Monterey Nava) Post Grad School - 973 Ve 1 for 's wire or ROD 2" for 14 TUBE for RoD. ain slidings c'tor Details of Feed & adjust 240 Bzllow Z. formin SWR 1.101 Feed Invertise Below Details (RG-58 only) 4 -4\_\_\_\_ K-26'z Braid to Braid ends Feed live any length. Insulation Center Conductor TANE -Solder together OVER-